

### Abstract of the Disclosure

A method of assembly is presented for a multi-wavelength optical monitor (MWOM) for use in fibre optic telecommunication networks. The method allows coarse optimisation to be used to align an input optical fibre and detector array relative to a wavelength division demultiplexing element. The detector array output data are transformed with a digital signal processor into relative intensities of the components of the spectrum or spectral parameters of telecommunication channels.

1. A method of assembly for a multi-wavelength optical monitor (MWOM) for use in fibre optic telecommunication networks, the method comprising: aligning an input optical fibre and detector array relative to a wavelength division demultiplexing element; and transforming detector array output data with a digital signal processor into relative intensities of the components of the spectrum or spectral parameters of telecommunication channels.